

General
Services
Administration
Caribbean Property
Management Center

# Federico Degetau Federal Office Building & Clemente Ruiz Nazario Courthouse PR0017ZZ

150 Chardon Ave., Hato Rey, Puerto Rico

### **Post-Earthquake Assessment**

January 28, 2020

#### **General Services Administration**

Caribbean Property Management Center 150 Carlos Chardon Ave., Room 359 Hato Rey, PR 00918

Attention: Eng. Karin Reed, Project Manager Ms. Olga Rodriguez, Contracting Officer

#### **Submitted By:**



RMA ARCHITECTS, P.S.C.
P.O. BOX 10992 CAPARRA HEIGHTS STATION
SAN JUAN, PUERTO RICO 00922-0992
T. 787-749-1960, T. 787-749-1965

# Post-Earthquake Facility Assessment for GSA Facilities in Puerto Rico

Project Name: Puerto Rico Post-Earthquake Federal Facility Assessment

Project Number: TBD

Region: Northeast and Caribbean (02) - Design & Construction Division

Building Name: Multiple Buildings

Building Addresses: 300 Recinto Sur Street, San Juan;

150 Chardon Ave., Hato Rey; 651 Federal Drive,

Guaynabo

Building Numbers: PR0003ZZ, PR0017ZZ, PR0023ZZ, PR0024ZZ and PR00521FP

Name	Year Built	Stories	GSF	Construction
Toledo	1914 & 1940	4+ Basement 7+ Basement	128,715	(b)(5)
Degetau	1974	7+ Basement	441,750	
Ruiz Nazario	1974	2		
Child Care	2000 & 2004	1	±19,180 (footprint)	
Parking Garage	2009 *	4	170,532	
GSA Center	1941	1	85,639	

#### **Executive Summary**

Following the seismic events of January 7, 2020, the U.S. General Services Agency (GSA) requested Architectural and Engineering (A/E) services to provide Post Earthquake Assessment of GSA Federal Buildings in Puerto Rico. Multiple teams of qualified structural engineers were organized to expedite the work during January 13 through January 15, 2020. GSA- SME Subject Matter Expert, Eng. William Earl accompanied the teams in the performance of the series of assessments. Available documents were provided by GSA prior to the visit for review and are detailed in the report.

#### **Project Scope**

The AE is to provide qualified inspection teams to perform the Detailed Evaluation Method for the multiple buildings listed herein in accordance with the current edition of Applied Technology Council ATC-20: "Procedures for Post-earthquake Safety Evaluation of Buildings". <a href="https://www.atcouncil.orgiatc-20">https://www.atcouncil.orgiatc-20</a>

#### Deliverable 1 shall consist of:

- 1. Completed standardized forms included in ATC-20 for each building;
- An executive summary of the observations and safety assessment for each building.

<u>Deliverable 2</u> shall consist of a letter report of the observations and safety assessment for each building including descriptions and photographs of any observed safety conditions and key plans indicating locations.

#### Methodology

Multiple teams of qualified structural engineers were organized to expedite the work during January 13 through January 15, 2020. Teams are detailed and date of site visits listed in the Schedule of work in the table below.

DATE	TIME	ID	Name	Year Built	Stories	GSF	Professional -1		Professional-2	П	Professional-3		RMA POC-CEL	GSA BLOG MANA	AGER
- 5	8-8:30		Kick off meeting		7,		XX.	10							
137		1	Jose V. Toledo U.S. Post	1914	4 + basement		Eng. William Earl	93	Erig. Arturo Beale-POC			100	(b)(6)		
Monday	8:30	PR0003ZZ	Office and U.S. Courthouse	1940	7 + basement	128,715.00	GSA SME 817-825-6237	×	RMA Structural Team Leader	×			(5) (5)	JOSE RAMOS	787-407-9852
1/13/2020	8:30	PR0023ZZ	Child Care Center	2000	Original	±19.180.00			Eno Luis Daza	П	Myrene Giuliani-POC	· ·		FRANCISCO MARTINEZ	787-403-9463
	8:30	PRUUZSZZ	Unite Care Center	2034	Annex	(footprint)			Eng. Lus Laza	Ш	myrene Giulani-PuG	A		FRANCISCO MARTINEZ	787-403-9463
100	1:00	PR0024ZZ	Parking Garage	2009	4	170,532.00	0		Eng Luis Daza		Myrene Giuliani-POC	X		FRANCISCO MARTINEZ	787-403-9463
	5:00		Wrap up call	8 1	100		3	181							
Name and Address of the	8:00	PR0017ZZ	Ruiz Nazario	1974	2	441,750.00	Eng. William Earl	X	Eng. Arturo Beale-POC	X	Eng. Manuel Vidal			FRANCISCO MARTINEZ	787-403-9463
Tuesday 1/14/2020	6.00	PR0017ZZ	Federico Degetau	1974	7 + basement	441,750,00	Eng. William Earl	Х	Eng. Arturo Beale-POC	Х	Eng. Manuel Vidal			FRANCISCO MARTINEZ	787-403-9463
131412020	5:00		Wrap up call												
Wednesday	10:00	PR00521FP	GSA Contor	1941	1	85,639.00	Eng. William Earl		Eng. Monica Santes	X	Cristina Algazo-POD	X		WILLIAM PAGAN	917-716-5217
1/15/2020	12:00		Wrap up call	F - 9				100		П					
		11			- 11	CALLI	N NUMBER:		PASSCODE (b)				0		

#### **GSA Documents**

GSA provided available documentation of each building and all known conditions of the facilities. Building Managers provided the support to the team in providing logistics of access to the team additional printed drawings and their knowledge of the building conditions. Information received is as follows:

2018 Seismic Assessment by Andrew Altamirano, PE 2003 Clemente Ruiz Nazario U.S. Courthouse Seismic Hazard evaluation Gp4 drawings

#### **Building Background Information**

Federico Degetau Federal Office Building and Ruiz Nazario US Courthouse were designed in the late 1969 and constructed in the 1970 by O' Kelly, Mendez & Brunner and Smith, Korach and Associates.

The Clemente Ruiz Nazario Building is a two story concrete structure consisting of (b)(5)

The 2018 report indicates this building was designed prior to seismic codes. 2018 Seismic Assessment states previous studies were performed to the building and are as follows:

2003- Seismic hazard evaluation performed by ABS Consulting

2017- Seismic evaluation by Thornton Tomasetti

2018- Seismic evaluation by Thornton Tomasetti

As to the date of this report GSA informed there has been no improvements to the building reported as part of the seismic reinforcement findings

#### **Findings**

The seismic evaluation performed has been of an ocular nature with the sole purpose of detecting visible damages with the structure experienced as a result of the earthquake of January 7, 2020 and the corresponding aftershocks to the date inspected. It does not address compliance with the current building codes in effect for Puerto Rico (IBC 2018) nor damages

caused by other lateral loads causing events, soil conditions or any other events.

No structural damage related to recent seismic events were found at the subject facility. For additional observations, see the attached documentation.

ATC-20 Detailed	l Evalua	ition Sa	fety As	sessment Form
Inspection Inspector ID: MANUEL Affiliation: CONSULTUL Inspection date and time: 8.0	ENGINEE	IL TO		T veztucien oze
Building Description  Building name: FARUS IF  Address: ISD CARLOS F.  HATO REY , P.  Building contact/phone: FRANCE  Number of stories above ground:  Approx. "Footprint area" (square Number of residential units:	EGETAU FE CHAP DON PR . 0091 USCO MARTÍN I: 7 below e feet]: 941	ED. CFF. BL N AY. 4f-1703 (内 (b) (6	Primary Oc	ccupancy  G Commercial Government sidential Offices Historic
Number of residential units not h				ssembly   Industrial   School
Evaluation Investigate the building for the c sketch.  Overall hazards: Collapse or partial collapse Building or story leaning Other	conditions below  Minor/None	w and check the	Severe	olumn. There is room on the second page for a  Comments
Structural hazards: Foundations Roofs, floors (vertical loads) Columns, pilasters, corbels Diaphragms, horizontal bracing Walls, vertical bracing Precast connections Other		3 000000	000000	
Nonstructural hazards: Parapets, ornamentation Cladding, glazing Ceilings, light fixtures Interior walls, partitions Elevators Stairs, exits Electric, gas Other	口族與兩項政政域		0000000	
Geotechnical hazards: Slope failure, debris Ground movement, fissures Other General Comments:	¥37 437 □			

ATC-20 Detailed Evalua	tion Safety As	ssessment Fo	orm	Page 2
Building name: FEDERICO DEGE  OFFICE BLDS.  Sketch (optional) Provide a sketch of the building or damaged portions. Indicate damage points.  Estimated Building Damage If requested by the jurisdiction, estimate building damage (repair cost + replacement cost, excluding contents).  None  0-1%  1-10%  10-30%  30-60%  60-100%  100%	TAU FEDERAL	Inspector ID: MA	IC ISLUS. PER	
If necessary, revise the posting based on to building are grounds for an Unsafe posting. Indicate the current posting below and at to INSPECTED (Green placard)  Record any use and entry restrictions exact	RESTRICTED USE the new evaluation and te Local Severe and overall the top of page one.  RESTRICTED USE tly as written on placard	UNSAFE Inspectant judgment. Severe of Moderate conditions of (Yellow placard)	conditions endangering to may allow a Restricted I	Date: ( ) 4  20 he overall Use posting.
Further Actions Check the boxes be		s are needed.		
☐ Engineering Evaluation recommended: ☐ Other recommendations:		☐ Geotechnical	☐ Other:	
Comments:				

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Inspection Inspector ID: A27,20 2 Affiliation: 650 cod Inspection date and time: Ja	the attest	12m3	2 031L	-	from p	Inspected Restricted Use
Building Description  Building name: 2012 AAA  Address: Colle Cholle  Hato 254, 7.2  Building contact/phone: Date  Number of stories above ground  Approx. "Footprint area" (square  Number of residential units:	- 00918 - 12 Delow e feet): 80	17 p 3 (b) (6) ground:	Type of Co Wood fra Steel fra Tilt-up co Concrete Primary Oc Dwelling Other re:	enstruction ame ime oncrete e frame cupancy sidential	Concrete she Unreinforced Reinforced m Other: Commercial	masonry asonry
Number of residential units not Evaluation Investigate the building for the sketch.	habitable: 🔼			cy services	Other:	
SKEICH.	Minor/None	Moderate	Severe	Commen	ts	
Overall hazards: Collapse or partial collapse Building or story leaning Other	<b>½</b>					
Structural hazards: Foundations Roofs, floors (vertical loads) Columns, pilasters, corbels Diaphragms, horizontal bracing Walls, vertical bracing Precast connections Other		000000				
Nonstructural hazards: Parapets, ornamentation Cladding, glazing Ceilings, light fixtures Interior walls, partitions Elevators Stairs, exits Electric, gas Other			000000			
Geotechnical hazards:		_				

Building name: 2016 22 20 20	3176	Inspe	ctor ID: 🐣	27.024	SEC	···	7.12	(-) (9)
Sketch (optional)								
Provide a sketch of the building or damaged portions. Indicate damage								
points.								
Estimated Building Damage								
If requested by the jurisdiction,								
estimate building damage (repair cost + replacement cost, excluding								
contents).								
<b>≫</b> None								
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## MANUELA. VIDAL, MCE, ECE, PE CONSULTING ENGINEER

b) (6)

January 16, 2020

Jeannette Rullán, Architect
Jeannette Rullan < (6) (6)

Re: Federico Degetau and Ruiz Nazario Buildings, Hato Rey, Puerto Rico Earthquake Assessment Visit on Tuesday Jan. 14, 2020

Dear Jeannette:

This is a summary, from my perspective, of what went on, on that visit.

Present, besides myself: Mr. William Earl, GSA Public Buildings Services Mr. Arturo Beale, Structural Consultant Mr. Pablo Beale, Associate with Mr. Arturo Beale

We met from 8:00 AM to 2:45 PM and accomplished the following:

- 1. Perimeter exterior ocular inspection of both buildings.
- 2. Inspection of roof area in the Federico Degetau building.
- 3. Inspection of stair and elevator cores at various levels in the Degetau building.
- 4. Inspection of machine and equipment rooms in both buildings.
- 5. Inspection of walls and beams at various levels their interior in both buildings.

Please be advised that upon the ocular inspection in reference, we agreed that there is no evidence that the structural integrity of these buildings was affected by the January 7<sup>Th</sup> earthquakes and aftershocks.

Both buildings were designed, according to the date I saw on the structural drawings, in 1969, thus the design is not up to code. Nevertheless, due to the structural system used, it is still a very robust building due to its inherent redundancy.

(b) (6)

